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Datasheet for ABIN7194638 CNDP1 Protein (His tag)



Overview

Quantity:	50 µg
Target:	CNDP1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CNDP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CNDP1 Protein (His Tag)(Active)
Sequence:	Ser27-His507
Characteristics:	A DNA sequence encoding the mature form of human CNDP1 (NP_116038.4) (Ser27-His507) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave carnosine (β -Ala-L-His) in a two-step assay. The specific activity is > 250 pmoles/min/µg.

Target Details

Target: CNDP1

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Target Details	
Alternative Name:	CNDP1 (CNDP1 Products)
Background:	Background: CNDP1; also known as carnosine dipeptidase 1; glutamate carboxypeptidase-like
	protein 2 (CPGL-2) or carnosinase 1 (CN1); is a member of the M20 metalloprotease family.
	The CNDP1 gene contains trinucleotide (CTG) repeat length polymorphism in the coding region;
	which has been demonstrated to be associated with susceptibility to developing diabetic
	nephropathy; for carnosine protection against the adverse effects of high glucose levels on
	renal cells. In humans; CNDP1 is secreted from the liver into the serum. In other mammals;
	including rodents; CNDP1 is expressed exclusively within the kidney and lacks a signal peptide.
	CNDP1 protein is a secreted homodimeric dipeptidase that specifically hydrolyzes L-carnosine (
	β -alanyl-L-histidine); and is identified as human carnosinase expressed in the brain. CNDP1 has
	been associated with diabetic nephropathy in Europeans and European Americans; but not
	African-Americans. It was identified and confirmed as a risk factor; were cross-sectional and
	mostly in patients with type 2 diabetes. The polymorphisms of CNDP1 can be excluded as a
	risk factor for nephropathy in type 1 diabetes. In addition; CNDP1 is also suggested to be
	implicated in the actions of neuroprotection and neurotransmiting.
	Synonym: Beta-Ala-His Dipeptidase; CNDP Dipeptidase 1; Carnosine Dipeptidase 1; Glutamate
	Carboxypeptidase-Like Protein 2; Serum Carnosinase; CNDP1; CN1; CPGL2;HsT2308
Molecular Weight:	55.3 kDa
NCBI Accession:	NP_116038
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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